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MONTHLY LETTER OF THE BUREAU OF ENTOMOLOGY.
U.S. DEPARTMENT OF AGRICULTURE.

NUMBER 17 SEPTEMBER 1915

LIBRARY.
Miss Mabel Colcord, Librarian.

NEW BOOKS.

The Americana reference library, comprising the arts and sciences literature, history, biography, geography, commerce etc., of the world. Editor in chief, Frederick Converse Beach, Managing editor, George Edwin Rines. Americana company, New York, 1914. 22 vols.

Designed to be practical, up to date and standard on its subjects. Articles signed. Zoology by David Starr Jordan. [Files in Main Library reading room]

Anales de zoologia aplicada (agricola, medica, veterinaria) Director y redactor, Prof. Carlos E. Porter. Santiago de Chile, vol. 1, no. 1, April, 1914. [Received Sept. 4, 1915]

Dick, J. H.
Commercial carnation culture. New York, 1915. 262p.
Chapter 15: Insects, diseases and other pests, p. 233-256.

Ghosh, C. C.
Bee-keeping. Calcutta, 1915. 87p. illus., pl. (Agr. Research Inst. Pusa. Bul. 46)

Kellogg, V. L. and Perris, G. F.
The Anoplura and Mallophaga of North American mammals. Stanford University, 1915. 74p.

Lutz, F. E.
List of greater Antillean spiders with notes on their distribution. (Annals of the New York Academy of sciences vol. 26, p.71-148, May 29, 1915)

Milburn, T. and Bessey, E. A.
Fungoid diseases of farm and garden crops. London, 1915. 118p.

Phillips, E. F.
Bee-keeping. New York, 1915. 457p. illus. (The rural science series).

Redia. giornale di entomologia. vol. 10, 1915.
p. 151-218 Berlese, Antonio. La distruzione della Diaspis pentagona a mezzo della Prospaltella Berlese.
Index to vols. 1-10 of Redia, p. 151-218.

U. S. Superintendent Documents.
Price list 41, ed. 6. Insects. Publications of the U. S. Department of Agriculture for sale by the Superintendent of Documents. August, 1915.

Vermorel, Victor and Crolas, Ferdinand.
Manuel pratique des sulfurages. ed. 17. Villefranche (Rhone) [189?] 132p.

BEE CULTURE.
E. F. Phillips, In Charge.

Recent visitors at the Bee Culture Laboratory were Mr. E. R. King, Instructor in Bee-Culture, at Cornell University, Mr. E. G. Baldwin, Associate Editor Beekeepers' Review, of De Land, Florida, and Dr. D. B. Casteel of the University of Texas, who was connected with the office for two summers.

Dr. E. F. Phillips returned recently from a trip West on which he attended a Beekeepers' field meeting at the Dadant apiary, Hamilton, Illinois, and a meeting of apiary inspectors at Keokuk, Iowa.

CEREAL AND FORAGE INSECT INVESTIGATIONS.
F. M. Webster, In Charge.

Professor F. M. Webster is at present on a tour of inspection of the western field laboratories. He will visit all of the western and southwestern stations of this section before returning to Washington.

Mr. Irving R. Crawford, temporarily attached to the range caterpillar investigations at Maxwell, New Mexico, has resigned from the service in order to engage in other work.

Professor F. M. Webster recently visited the Connecticut valley and other sections of New England in connection with the grasshopper control investigations. This experimental work has been conducted in the field by Mr. Harrison E. Smith and has proven highly successful. The poison bran bait was extensively used.

Mr. V. L. Wildermuth of the Tempe, Arizona laboratory recently spent some time in Washington in the preparation of manuscript for publication.

Mr. D. J. Caffrey reports the recovery of the parasitic fly Compsilura concinnata from specimens of the range caterpillar taken at a point where a colony of the fly was liberated during the summer of 1914. This apparently indicates that the parasite has become established. Mr. Caffrey also reports the range caterpillar as injuring seriously corn and other cultivated crops in the vicinity of Maxwell, New Mexico during the past summer. The insect has therefore confined its attentions almost exclusively to the blue gramma grass of the cattle ranges.

DECIDUOUS-FRUIT INSECT INVESTIGATIONS.
A. L. Quaintance, In Charge.

Mr. John B. Gill is on a trip of investigation of pecan insects through points in Louisiana, Mississippi, and Texas. He will return to his headquarters at Monticello, Fla. about the middle of October.

Mr. B. R. Leach is now completely recovered from an operation for appendicitis and has resumed his duties at Winchester, Va. in connection with investigations of the wooly apple aphis.

Mr. A. J. Ackerman is engaged in making experiments with certain soil fumigants in the control of the wooly apple aphis in nurseries in Maryland.

The cranberry insect laboratory, formerly at Pemberton, N. J., in charge of Mr. H. B. Scammell, has been transferred to Brown's Mills, N. J.

Dr. A. L. Quaintance has returned from a trip of inspection of peach dusting and spraying experiments at Romney and Springfield, W. Va.

Mr. H. K. Plank, who has been assisting Mr. H. B. Scammell in cranberry insect investigations, will shortly be transferred to Washington for the winter months.

Mr. Leslie Pierce, of the Bureau of Plant Industry, is assisting Mr. F. L. Simanton at the Benton Harbor, Mich. laboratory in harvesting fruit in connection with the cooperative dusting and spraying experiments in the control of apple insects and diseases.

Dr. N. E. McIndoo, formerly working under the direction of Dr. E. F. Phillips in apicultural investigations, has been transferred to the office of Deciduous Fruit Insect Investigations and will devote his attention to a study of the physiological action on insects of various insecticides, especially those insecticides occurring in plants, with headquarters at Washington, D. C.

FOREST INSECT INVESTIGATIONS.
A. D. Hopkins, In Charge.

Mr. L. C. Griffith, assistant on shade tree insects, has spent the month in continuation of his survey of injurious shade tree insects occurring on Long Island, New York, and vicinity.

Mr. F. C. Craighead just returned from Long Island, New York, where, together with Mr. W. S. Fisher, he joined Mr. L. C. Griffith, on the Branch staff as assistant on shade tree insects, in a study and partial survey of the hickory barkbeetle infestation. Their investigation showed the hickories heavily infested wherever visited. But the campaign started by Mr. Griffith has aroused the interest of the owners of the infested hickory groves to a pitch promising much good concerted control work on Long Island during next winter under instructions from this Branch. Mr. Fisher is expected to return from this expedition in a day or two.

Mr. H. G. Champion, Carnegie Student, has recently returned from his tour of the western Forest Insect Field Stations, having spent some time at each of them to study the local problems and phases of the general problems of control of injurious forest insects. He has been away from Washington since March 10, having made prolonged stops at Missoula, Mont., Ashland, Ore., Yosemite, Cal., Placerville, Cal., and Colorado Springs, Colo., besides making shorter visits to other places of interest from the forest entomologist's point of view, and he is greatly pleased with what he has seen. Mr. Champion expects to leave Washington on October 3 and to sail from New York on October 9, after paying a flying visit to Melrose Highlands. After spending two to three weeks in England, he will proceed to India to take up his post in the Imperial Forest Service.

SOUTHERN FIELD CROP INSECT INVESTIGATIONS.
W. D. Hunter, In Charge.

Under an order which was promulgated by the Secretary of Agriculture on August 26 all foreign cotton reaching the United States will be fumigated with hydrocyanic-acid gas in a partial vacuum immediately upon arrival at ports of entry. The order takes effect on February 1, 1916.

W. D. Pierce attended the meeting of cotton planters and merchants at Thomasville, Georgia, on September 17.

U. C. Loftin has returned to his station at New Orleans from Cuba.

During the month E. R. Barber made an extensive trip to investigate the occurrence of the Argentine ant in new localities.

E. A. McGregor returned to his station at Batesburg, South Carolina on September 23.

F. L. McDonough was engaged during the greater part of the month in determining the spread of the boll weevil in Georgia, Mississippi, and Tennessee.

A. H. Jennings who has been in New York City for some months will return to Mound, Louisiana, early in October.

A letter has recently been received from A. W. Jobbins-Pomeroy who wrote from a military outpost in the Kameruns on August 2d. His entomological work has been suspended altogether on account of his enlistment in an expeditionary force which has been in the Kameruns for several months.

TROPICAL AND SUBTROPICAL INSECT INVESTIGATIONS.
C. L. Marlatt, In Charge.

Mr. W. W. Yothers will appear before the Seminar to be held at Gainesville, Fla., on October 4th.

Mr. E. R. Sasscer recently visited Rutherford, N. J., to investigate an outbreak of the European mole cricket (Gryllotalpa gryllotalpa).

Mr. H. L. Sanford, inspector of the Federal Horticultural Board, recently collected a very interesting weevil in potatoes from Peru. This weevil is closely allied to the weevils collected from the same locality in 1913.

A small greenhouse, divided into three units, has just been completed on the Mall. Mr. A. D. Borden, who has charge of this greenhouse, has assembled a number of severely infested greenhouse plants, and active work on greenhouse insect control is now under way.

TRUCK CROP AND STORED PRODUCT INSECT INVESTIGATIONS.
F. H. Chittenden, In Charge.

Mr. Neale F. Howard, who has been working on root-maggots and other insects at Green Bay, Wis., has entered Ohio University, Columbus, Ohio, for a postgraduate course, under the direction of Prof. Herbert Osborn. Mr. Howard reports that tarred felt pads, first invented by Goff, have been used by some of the gardeners in the vicinity of Green Bay since the early 90's and with perfect success. When made of the right material and properly placed the percentage of efficiency is practically 100. It is not applicable to cabbage in seed beds, but if it could be adapted to the control of the onion maggot, a near relative, it would be an ideal method.

Mr. C. C. Hamilton, temporarily engaged at Rocky Ford, Colo., has reentered the University of Illinois, Urbana, Ill.

Some excellent work has been accomplished in the discovery of certain new and little known parasites. Among the most interesting of these is a large braconid on the cabbage looper (Autographa brassicae Riley), and identified as Rhogas molestus, or a variety thereof. It bids fair to become a valuable means of reducing its host, providing it can be introduced into other regions for the control of the looper. With this species was also reared a common chalcidid parasite, Chalcis ovata Say.

Mr. J. W. Bailey, who has had experience with Mr. M. M. High in onion insect investigations at Brownsville, Tex., and who has been a collaborator during the year at Starkville, Miss., has entered Cornell University to complete his course in entomology, under the direction of Prof. Glenn W. Herrick.